

**Real-time PCR-system Prime Pro 48****Stuart****Real-time PCR-system Prime Pro 48**

The new Prime Pro 48 real time PCR system from Techne (UK) is a high specification, economically priced real-time thermocycler. The Prime Pro 48 system has a unique high thermal block uniformity ($\pm 0.1^{\circ}\text{C}$). This uniformity as well as validated sample volumes of down to $5\mu\text{l}$ enable an optimized reaction run time for 40 cycles down to only 15 minutes. The uniform temperature across the plate is achieved with a unique heating and cooling system that quickly enables a uniform temperature of $\pm 0.1^{\circ}\text{C}$ in every well of the block within a fraction of a second of reaching each well temperature. This high uniformity eliminates the need for triplicates which reduces reagent running costs. Prime Pro 48 accommodates a unique and economical 48-well PCR plate, the size of which is only 1/8 the size of a standard 96-well plate. The well format mirrors a 384-well plate therefore allowing the use of a 16-channel micropipette. The small plate cuts reagent costs in half whilst still producing a strong fluorescent signal. Applications include e.g. absolute and relative quantification, Allelic Discrimination and High Resolution Melt.

Features:

- Validated volume per well: 5 to $20\mu\text{l}$
- High temperature uniformity of $\pm 0.1^{\circ}\text{C}$ across the whole block instantly after every temperature change
- 40 cycles in 40 minutes before optimization, and down to only 15 minutes when optimized
- Genotype in 4 minutes with over 99% accuracy
- Patented "Adaptive LED Control" minimizes optical artifacts and prevents premature detector saturation
- Dual LED excitation (452nm to 486nm and 542nm to 582nm)
- 4 emission filters (505nm to 545nm, 562nm to 596nm, 604nm to 644nm, 665nm to 705nm)
- Data is always collected in all four filters for all wells
- Distinguishes 5000 and 10000 template copies with 99 percent confidence

Additional features:

- 48-well block



- MIQE compliant
- 400 analyte specific qPCR reagent kits available
- No calibration required
- Calibrated dyes: SYBR®, FAM™, HEX™, ROX™, Cy®5.
- Additional dyes within the filter wavelength range are supported with no additional calibration required
- Unlimited software license
- 1 year warranty

Custom 48-well qPCR plates and corresponding seals have to be ordered separately.

Specifications

Temperature range: 30 to 100°C

Temperature stability: ±0.1°C

Temperature uniformity: ±0.1°C within 1sec

Average ramp rate: 5.5°C/sec

Dimensions (W x D x H): 345 x 310 x 320mm

Weight: 13.6kg

Code	Description	Packaging
LLG09595516	Real-time PCR-system Prime Pro 48, Type Plate seals Prime Pro 48	





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